

INTERNATIONAL SEARCH REPORT

PCT/US 03/07438

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65C9/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 989 575 A (DAVIES JOHN R ET AL) 2 November 1976 (1976-11-02) column 4, line 9 - line 23 column 6, line 28 - line 32 column 7, line 37 - line 43 column 9, line 32 - line 33 figures 1,7,8 ---	1
A	US 4 363 685 A (WHITE ROLLIN T) 14 December 1982 (1982-12-14) column 4, line 57 - line 67; figure 4 ---	1
A	US 5 413 651 A (OTRUBA SVATOBOJ) 9 May 1995 (1995-05-09) abstract; figure 1 ---	1
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

3 July 2003

Date of mailing of the international search report

11/07/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

PCT/US 03/07438

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3989575	A	02-11-1976	NONE	
US 4363685	A	14-12-1982	US 4128954 A	12-12-1978
US 5413651	A	09-05-1995	NONE	
EP 0673839	A	27-09-1995	US 5674345 A	07-10-1997
			DE 9321009 U1	24-08-1995
			EP 0673839 A1	27-09-1995
			AU 4163293 A	06-01-1994
			CA 2096384 A1	02-01-1994
			DE 69301342 D1	29-02-1996
			DE 69319139 D1	16-07-1998
			EP 0577241 A2	05-01-1994
			JP 2567562 B2	25-12-1996
			JP 6080131 A	22-03-1994
			MX 9303558 A1	28-02-1994
			NZ 248016 A	29-01-1997
			NZ 272907 A	29-01-1997
US 6053231	A	25-04-2000	JP 8133253 A	28-05-1996
			CA 2172306 A1	24-09-1996
			SG 49799 A1	15-06-1998

INTERNATIONAL SEARCH REPORT

PCT/US 03/0/438

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 17
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Rule 6.2 PCT
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

PCT/US 03/07438

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 673 839 A (MOORE BUSINESS FORMS INC) 27 September 1995 (1995-09-27) abstract; figure 1 ---	1
A	US 6 053 231 A (MATSUGUCHI YUTAKA) 25 April 2000 (2000-04-25) abstract; figure 1 -----	1